In the Claims:

Please add new Claims 68-106 as indicated below. Substitute pages containing all pending claims are attached, and the entry of these pages is requested.

- 68. A therapeutic antibody that specifically binds an epitope contained within positions 10-25 of $A\beta$.
- 69. A therapeutic antibody that sequesters $A\beta$ peptide from its bound, circulating form in blood, and alters clearance of soluble and bound forms of $A\beta$ in central nervous system and plasma.
- 70. A therapeutic antibody that sequesters free β -amyloid in the blood and impedes passage of soluble β -amyloid out of the peripheral circulation.
- 71. A therapeutic antibody that sequesters free β -amyloid in the blood, reduces levels of β -amyloid in the brain of an animal and prevents formation of amyloid plaques in the brain of the animal.
- 72. The therapeutic antibody of claims 68-71 that is a whole antibody.
- 73. The therapeutic antibody of claims 68-71 that is a fragment.



- 74. The therapeutic antibody of claims 68-71 that specifically binds to an epitope having an amino acid between positions 10 and 25 of $A\beta$.
- 75. The therapeutic antibody of claim 68-71 that specifically binds to an epitope having an amino acid between positions 14 and 25 of A β .
- 76. The therapeutic antibody of claim 68, which specifically binds an epitope contained in positions 14-25 of said A β peptide.
- 77. The therapeutic antibody of claims 68-71, which is a single chain antibody.
- 78. An antibody fragment obtained from the therapeutic antibody of any one of claims 68-77.
- 79. The fragment of claim 78, which is a Fab or F(ab')2 fragment.
- 80. The fragment of claim 79, which is an F(ab')2 fragment.
- 81. The fragment of claim 79, which is an Fab fragment.
- 82. The therapeutic antibody or fragment of any one of claims 68-77, wherein the antibody or fragment thereof is produced in a myeloma cell.
- 83. The therapeutic antibody or fragment of any one of claims 68-82, which, when administered peripherally to



a human subject, does not need to cross the subject's blood-brain barrier to exert its beneficial effects.

- 84. The therapeutic antibody or fragment of any one of claims 68-82, which, when administered peripherally to a human subject, does not require cellular responses in the subject's brain to exert its beneficial effects.
- 85. The therapeutic antibody or fragment of any one of claims 68-82, which, when administered peripherally to a human subject, does not substantially bind aggregated $A\beta$ in the subject's brain.
- 86. The therapeutic antibody or fragment of any one of claims 68-82, which, when administered peripherally to a human subject, exhibits beneficial effects without necessarily binding to $A\beta$ plaques in the brain.
- 87. A nucleic acid, comprising a sequence coding for the light chain or the heavy chain of the antibody of any one of claims 68-86, or a fragment thereof.
- 88. One or more nucleic acids, which when expressed in a suitable host cell, yield an antibody of any one of claims 68-86.
- 89. An expression vector for expressing the antibody or fragment of any one of claims 68-86 comprising nucleotide sequences encoding said antibody or fragment.

Bot.

- 90. A cell transfected with the expression vector of claim 89.
- 91. A cell transfected with two expression vectors of claim 89, wherein a first vector comprises a nucleotide sequence encoding a light chain and a second vector comprises a nucleotide sequence encoding a heavy chain.
- 92. A recombinant cell that produces the therapeutic antibody or fragment of any one of claims 68-82.
- 93. The cell of any one of claims 90-92, wherein the cell is a myeloma cell.
- 94. A composition that comprises the antibody or fragment of any one of claims 68-86, and a sterile diluent.
- 95. A method to inhibit the formation of amyloid plaques or the effects of toxic soluble $A\beta$ species in humans, which method comprises administering to a human subject in need of such inhibition an effective amount of a therapeutic antibody or fragment thereof that specifically immunoreacts with an epitope contained in positions 10-25 of $A\beta$.
- 96. A method to reduce amyloid plaques or the effects of toxic soluble $A\beta$ species in humans, which method comprises administering to a human subject in need of such reduction an effective amount of a therapeutic antibody or fragment thereof which specifically immunoreacts with an epitope contained in positions 10-

By.

25 of $A\beta$.

- 97. A method to inhibit the formation of amyloid plaques or the effects of toxic soluble $A\beta$ species in humans, which method comprises administering to a human subject in need of such inhibition an effective amount of a therapeutic antibody or fragment thereof that sequesters $A\beta$ peptide from its bound, circulating form in blood.
- 98. A method to reduce amyloid plaques or the effects of toxic soluble $A\beta$ species in humans, which method comprises administering to a human subject in need of such reduction an effective amount of a therapeutic antibody or fragment thereof which sequesters $A\beta$ peptide from its bound, circulating form in blood.
- 99. The method of any of claims 95-98, wherein said antibody or fragment, when administered peripherally to humans, does not need to cross the blood-brain barrier to inhibit the formation of amyloid plaques or the effects of toxic soluble $A\beta$ species.
- 100. The method of any of claims 95-98, wherein said antibody or fragment, when administered peripherally to humans, does not require cellular responses to inhibit the formation of amyloid plaques or the effects of toxic soluble $A\beta$ species.
- 101. The method of any of claims 95-98, wherein said antibody or fragment, when administered peripherally to

